SBRNO - 321 / 14-15
Dt: 28-2-15

BRM: 48 of 28-2-15

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. 1st and final Bill

Name of Work Imp and Asphalting from to BEL, 6th to Block Roads in Wrd in 249501

Name of Contractor of nature of Agency C. Shivaraj Vidyaranyapura Sub-Dn

Date of commencement of work D.O. Recording 26/02/2015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Estimated cost Rs	15.00 Lakhs					
	JOB NO	009-14-000039					
	Work order no	EE/BTP/BBMP/E-Pmt/225/2014-15 Dt. 14-01-15					
	Date of Commencmt	16-01-2015					
	Date of Completion	26-02-2015					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
①	Earthworks excavation by manual means in hard soil involving an average horizontal throw upto 2m and an average lift upto 0.50m, Excavated surface levelled and sides neatly dressed, the disposed Earth to be levelled neatly after breaking lumps clods etc complete as per specifications and directions of Engineer - In. charge of the work.						
	Qty vide this MB p. 249 to 251		①	388.884			
					e 95.214	37025.00	
2)	Removing of B.S. slabs drain and stacking etc						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Complete as per spec... In. charge of the Work	
3)	Refixing of Stone ... CM(1:3) etc complete ... directions of Engrs.	

OK

Depth 6	Contents 7	Reference to last Measurement 8
...rons in hand		
...throws upto		
..., Excavated		
...sed, the		
...r breaking of		
...and directions		
...mB p. 249571		
...388.88 m³		
	@ 95.21/m³	37025.00
...backing etc		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

249502

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Complete as per specifications and directions of Engineer In charge of the Work.						
	Qty vide this MB p. no 249572						
	It no. (2) = 783.00 m² @ 52.60/m²						41186.00
3)	Refixing of Ame Rubbish drains and pointing in CM(1:3) etc complete as per specifications and directions of Engineer in charge of Work.						
	Qty as per It no. (2) =					783.00 m²	57555.00
	@ 73.50/m²						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4)	Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet surface dressing and stacking of old serviceable material, with a lead of 100m by manual means including cost of all labour charges to complete as per specification.						
		Qty vide this MB p.no 249573					
		Total no. ③ =				2550.0 Sq.m	
		@				42.50/Sq.m	108375.00
5)	Providing, laying, spreading and compacting graded						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	stone aggregates to ... including processing ... one is mechanical mix ... by tippers to site, laying ... in sub-base/ base c... and compacting with ... desired density etc ... directions of Engineer	

th	Contents 7	Reference to last Measurement 8
	100 mm Compct der d mea mplete No 249573 M2 42.50/M2 — 108375.00 graded	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249503

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	stone aggregates to wet mix Macadam specifications including processing the material with water and one is mechanical mix plant carriage of mixed material by tippers to site, laying in uniform layers with power in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density etc complete as per specifications of directions of Engineer-In-charge of the work.						

~~Sty~~ x de ~~the~~ MB p. 2497/p. 249678-79

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		If no	(1)	382.50	m^3 @ 1176.53/m^3 =	450023.00	
6)	Cleaning the existing WBM Road surface including removing of binding material and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and or compressed air to receive bituminous treatment including using all materials labour, moving mechanisms etc complete as per specification.						
		Qty vide If no.	(4)	=			28178.00
		2550.0 m^2 @ 11.05/m^2					

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
7)	providing and applying Emulsion on prepare including cleaning of r at the rate of 0.60 l/ complete as per spec Incharge work	

K

pth 6	Contents 7	Reference to last Measurement 8
	1176.53	450023.00
ue	Includg	
	foreign	
	Sweeping	
	thng with	
	e use	
	aterials	
	complete	
	=	28178.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249504

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
7)	providing and applying primer coat with bitumen Emulsion on prepared surface granular base including cleaning of road surface and spraying primer at the rate of 0.60 kg/m² using mechanical means complete as per specifications and drawing Engrs In-charge work.						
		Qty as per '22'.			(b)	= 2550.0 m² @ 46.44/m²	118422.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8)	Providing and laying dense bituminous Concrete 25mm thick with 100-120TPH batch type HMP producing an average output of 75 t per hour using crushed aggregates of specified grading, premixed with bitum. room binder at 4.5 to 5% of mix and d/lm, transporting the mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade level and alignment, rolling with smooth wheeled, heavy and tandem rollers to achive the desired compaction as per morth specification Clause no 500.8 complete in all respects as per specification. With 80/100 grade						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	bitumen, etc complete BEL-6M Bluelo. main Rd. 3rd cross. Road [ch. 0.0 to 165.0m]	

Contents 7	Reference to last Measurement 8
(25 mm	
...cing	
...hed	
bitum.	
...spulp	
pans	
...ulp	
...bly	
...chin	
...pleh	
...ged	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 249505

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	bitumen, etc complete as per specification Arg.						
	BEL-6th Block. Main Rd. 3rd Cross Rd.	1	30.00	$\frac{8.4+7.0}{2}$	0.025	5.78	
	[Ch. 0.0 to 165.00m]	1	30.00	$\frac{7.0+6.9}{2}$	0.025	5.24	
		1	30.00	$\frac{6.9+6.7}{2}$	0.025	5.10	
		1	30.00	$\frac{6.7+6.9}{2}$	0.025	5.10	
		1	30.00	$\frac{6.9+6.7}{2}$	0.025	6.10	
		1	15.00	$\frac{6.7+8.7}{2}$	0.025	2.89	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CRoss-Road - 1st. B' [Ch. 0.00 to 105.00m]	1	30.00	$\frac{8.0+4.2}{2}$	0.025	4.58	
		1	30.00	$\frac{4.2+4.1}{2}$	0.025	3.11	
		1	30.00	$\frac{4.1+4.5}{2}$	0.025	3.23	
		1	15.00	$\frac{4.5+5.5}{2}$	0.025	1.88	
	CRoss-Road - 2 (Ch. 0.00 to 125.00m)	1	30.00	$\frac{6.7+4.2}{2}$	0.025	4.09	
		1	30.00	$\frac{4.2+4.0}{2}$	0.025	3.08	
		1	30.00	$\frac{4.0+4.0}{2}$	0.025	3.00	
		1	30.00	$\frac{4.0+4.5}{2}$	0.025	3.19	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Balance Work at 'P' Pier Left Bank Slope Gravel ch. 305.00 to 335m 335.00 to 345.00m	

ontents	Reference to last Measurement
7	8
.58	
21	
23	
88	
09	
08	
.00	
13	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249506

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	5.00	$\frac{4.5+9.0}{2}$	0.020	0.84	
	Balance Work at v/pur Last Bkg. chg 2 Gloves ch. 305.00 to 335m	1	30.00	$\frac{7.6+7.6}{2}$	0.020	5.70	C&FC of 28/2/2015
		1	10.00	$\frac{7.6+10.0}{2}$	0.020	2.20	
	335.00 to 345.00m					64.084	ಕಾ.ಪ.(ಪ್ರ.ಎ)
					1.1	63.7543	
					@	10108.20	Rs 644398.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9)	Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface - providing and laying hot applied thermoplastic compound - 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes etc complete as per specifications and direction of Engineer - In-charge of the work.						
						Not - operated	—

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Certificate.	
	① Certified that the	

Jointly.

OOK

Depth 6	Contents 7	Reference to last Measurement 8
rmoplastic Comp		
on bituminous		
lied thermoplastic		
ectorising glass		
ness of 2.5mm		
form and free		
per specifications		
the work.		
rated –	–	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
249507

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total Rs.	15,00,069.58
	Certificate.						14,85,158=00
	① certified that the contractor has work done satisfac						
	torily.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2) The contractor has removed the debris from work site.						
	3) There is no dept. materials issued to contractor.						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	